



## Safety Data Sheet

Material Name: Platia™  
07/12/2018

SDS ID: 01051  
Revision: 1.0

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

Platia™

**Synonyms**

Mirrored Float Glass.

**Chemical Family**

Glass

**Product Description**

This material is considered an 'article'. The end use is dependent upon the manufactured shape and design, and this article will not pose an exposure hazard under normal conditions.

**Product Use**

Glass. This material is an article.

**Restrictions on Use**

None known.

**Details of the supplier of the safety data sheet**

Vitro Flat Glass LLC (Vitro)

400 Guys Run Road

Cheswick, PA 15024

Technical Phone Number: 1-855-887-6457 (9:00 AM – 4:00 PM EST)

Emergency Phone Number: 1-866-290-7653

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

None needed according to classification criteria.

**GHS Label Elements****Symbol(s)**

None needed according to classification criteria.

**Signal Word**

None needed according to classification criteria

**Hazard Statement(s)**

None needed according to classification criteria.

**Precautionary Statement(s)****Prevention**

None needed according to classification criteria.

**Response**

None needed according to classification criteria.

**Storage**

None needed according to classification criteria.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards**

Sanding and grinding this article can generate nuisance dust particles. Sanding and grinding dusts may be irritating to eyes and respiratory system.



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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
65997-17-3	Glass, oxide, chemicals	60-100
1314-13-2	Zinc oxide (ZnO)	0.122-0.237
155-04-4	Zinc mercaptobenzothiazole	0.056-0.108
7440-22-4	Silver	0.007-0.013

#### Component Related Regulatory Information

This product may be regulated and have exposure limits as identified in Section 8. Processing of this article may produce dusts or fumes which are considered hazardous. Activities that generate dust from these coated glass products should be evaluated to determine if any regulatory exposure limits are exceeded. If exposure limits are exceeded for dust/metal, appropriate engineering controls (e.g., ventilation/HEPA filters) and/or personal protective equipment (e.g., respirators) should be provided. Composition consisting primarily of oxides of silicon with lesser quantities of other selected oxides common to soda-lime glasses, fused into an amorphous vitreous state. Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4 - FIRST AID MEASURES

#### Inhalation

(Sanding and grinding dust): May cause transient, mechanical irritation. Move person to non-contaminated air. Call a physician if symptoms persist.

#### Skin

(Sanding and grinding dust): May cause transient, mechanical irritation. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

#### Eyes

(Sanding and grinding dust): In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Ingestion

Not a likely route of exposure. However, if the material is swallowed, injuries from glass particles may result. Do not induce vomiting; get immediate medical attention. (Sanding and grinding dust): May cause transient, mechanical irritation.

#### Most Important Symptoms/Effects

##### Acute

No information on significant adverse effects.

##### Delayed

No information on significant adverse effects.

#### Note to Physicians

Treat symptomatically.



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### Section 5 - FIRE FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Use methods for the surrounding fire.

##### Unsuitable Extinguishing Media

None identified.

#### Special Hazards Arising from the Chemical

This material will not burn.

#### Hazardous Combustion Products

None known.

#### Fire Fighting Measures

Move material from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

#### Special Protective Equipment and Precautions for Firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

### Section 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

#### Methods and Materials for Containment and Cleaning Up

Vacuum or sweep up material and place in a designated, labeled waste container or recycling container. Avoid creating dusts. Collect breakage or dust using a vacuum cleaner with a HEPA filter. Place in a closed container. Regulations vary. Consult local authorities before disposal. Glass products may be recycled.

#### Environmental Precautions

Do not flush into sanitary sewer systems, drains or surface water.

### Section 7 - HANDLING AND STORAGE

#### Precautions for Safe Handling

(Sanding and grinding dust): Do not inhale dusts. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid generation of airborne dusts. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Put on appropriate personal protective equipment (see Section 8). Sharp edges of glass may cause mechanical injury. Contact with rough or sharp edges may cause cuts or abrasions. Take care with items that are sharp or heavy. These safety concerns should be addressed with proper personal protective equipment to protect oneself against any sharp edges, including those formed by accidental glass fracture during handling. Sanding (a.k.a. seaming or edging) any sharp glass edges to produce rounded edges also reduces the hazards of being cut by sharp edges.

#### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Store in a dry place away from excessive moisture and exhaust fumes from fork trucks or other such equipment.

Support glass in cases on both sides when stored vertically. Glass packs and open cases should be stored at a 3° to 5° lean angle to prevent glass from falling forward.

#### Incompatible Materials

None known.



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**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<b>Glass, oxide, chemicals</b>	<b>65997-17-3</b>
ACGIH:	10 mg/m3 TWA inhalable particles, recommended ; 3 mg/m3 TWA respirable particles, recommended (related to Particulates not otherwise classified (PNOC))
OSHA (US):	15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction (related to Particulates not otherwise classified (PNOC))
	15 mppcf TWA respirable fraction ; 5 mg/m3 TWA respirable fraction ; 50 mppcf TWA total dust ; 15 mg/m3 TWA total dust (related to Particulates not otherwise classified (PNOC))
<b>Zinc oxide (ZnO)</b>	<b>1314-13-2</b>
ACGIH:	2 mg/m3 TWA respirable particulate matter
	10 mg/m3 STEL respirable particulate matter
NIOSH:	5 mg/m3 TWA dust and fume
	10 mg/m3 STEL fume
	15 mg/m3 Ceiling dust
	500 mg/m3 IDLH
OSHA (US):	5 mg/m3 TWA fume ; 15 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable fraction
Mexico:	5 mg/m3 TWA VLE-PPT fume ; 10 mg/m3 TWA VLE-PPT dust
	10 mg/m3 STEL [PPT-CT ] fume
<b>Zinc mercaptobenzothiazole</b>	<b>155-04-4</b>
NIOSH:	SK: SEN (Aug 2014 )
<b>Silver</b>	<b>7440-22-4</b>
ACGIH:	0.1 mg/m3 TWA dust and fume
NIOSH:	0.01 mg/m3 TWA dust
	10 mg/m3 IDLH dust



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Europe:	0.1 mg/m3 TWA
OSHA (US):	0.01 mg/m3 TWA
Mexico:	0.1 mg/m3 TWA VLE-PPT

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Engineering Controls

If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. The ventilation system should be equipped with a HEPA (High Efficiency Particulate Air) filter with efficiency greater than 99.9%.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear safety glasses with side shields.

#### Skin Protection

Wear appropriate, anti-lacerative work gloves, if necessary for type of operation. Use of coveralls is recommended.

#### Respiratory Protection

(Sanding and grinding dust). If permissible levels are exceeded, use NIOSH approved dust respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Glove Recommendations

Anti-lacerative gloves are recommended.

#### Protective Materials

Use good hygiene practices when handling this material including changing and laundering work clothing after use.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear glass	Physical State	solid
Odor	odorless	Color	Not available
Odor Threshold	Not available	pH	Not available
Melting Point	685 - 740 °C	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available



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Water Solubility	(Insoluble )	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	2.5 g/cm <sup>3</sup>
Physical Form	solid	Molecular Weight	Not available

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No hazard expected.

#### Chemical Stability

Stable.

#### Possibility of Hazardous Reactions

None known.

#### Conditions to Avoid

None known.

#### Incompatible Materials

None known.

#### Hazardous decomposition products

None known.

### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Inhalation

(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. When inhaled in very large amounts, damage to the lung can occur.

##### Skin Contact

(Sanding and grinding dust): Dust or powder may irritate the skin. Mechanical rubbing may increase skin irritation.

##### Eye Contact

(Sanding and grinding dust): Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea.

##### Ingestion

(Sanding and grinding dust). May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

##### Acute and Chronic Toxicity

(Sanding and grinding dust): Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness. When inhaled in very large amounts, damage to the lung can occur.

##### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Zinc oxide (ZnO) (1314-13-2)

Oral LD50 Rat >5000 mg/kg (in water ;no deaths occurred )

##### Zinc mercaptobenzothiazole (155-04-4)

Oral LD50 Rat 5505 mg/kg



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Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred )

**Silver (7440-22-4)**

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rat >2000 mg/kg (males )

**Product Toxicity Data**

**Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

**Immediate Effects**

(Sanding and grinding dust): Dust or powder may be irritating to the eyes, skin, respiratory system and gastrointestinal tract.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

(Sanding and grinding dust): respiratory tract irritation, skin irritation, eye irritation.

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

No information available for the product.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

**Germ Cell Mutagenicity**

No information available for the product.

**Tumorigenic Data**

No information available for the product.

**Reproductive Toxicity**

No information available for the product.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No information available for the product.

**Medical Conditions Aggravated by Exposure**

No data available.

**Additional Data**

Under normal conditions of use for this product, the likelihood of inhaling or ingesting amounts necessary for adverse effects to occur is very small.



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### Section 12 - ECOLOGICAL INFORMATION

#### Ecotoxicity

No information available for the product.

#### Component Analysis - Aquatic Toxicity

Silver	7440-22-4
Fish:	LC50 96 h Pimephales promelas 0.00155 - 0.00293 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 0.0062 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 0.064 mg/L [static ]
Invertebrate:	EC50 48 h Daphnia magna 0.00024 mg/L [Static ] EPA

#### Fish Toxicity

No information available for the product.

#### Bioaccumulative Potential

No information available for the product.

#### Mobility

No information is available for the product.

#### Biodegradation

Glass is inert in the environment.

### Section 13 - DISPOSAL CONSIDERATIONS

#### Disposal Methods

Waste must be handled in accordance with all applicable regulations. The generation of waste should be avoided or minimized wherever possible.

#### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

### Section 14 - TRANSPORT INFORMATION

#### IATA Information:

**Further information:** Not regulated as dangerous goods

#### ICAO Information:

**Further information:** Not regulated as dangerous goods

#### IMDG Information:

**Further information:** Not regulated as dangerous goods

#### US DOT Information:

**Further information:** Not regulated as dangerous goods

#### International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.



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### Section 15 - REGULATORY INFORMATION

#### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Silver	7440-22-4
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm ); 454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm )

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

No hazard categories applicable.

#### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Glass, oxide, chemicals	65997-17-3	No	No	Yes	No	No
Zinc oxide (ZnO)	1314-13-2	Yes	Yes	Yes	Yes	Yes
Silver	7440-22-4	Yes	Yes	Yes	Yes	Yes

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

#### Canada Regulations

##### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Zinc oxide (ZnO)	1314-13-2
	1 %
Silver	7440-22-4
	1 %

#### Component Analysis - Inventory

Glass, oxide, chemicals (65997-17-3)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Zinc oxide (ZnO) (1314-13-2)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Zinc mercaptobenzothiazole (155-04-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Silver (7440-22-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes



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### Section 16 - OTHER INFORMATION

#### NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Preparation Date

New: 7/12/2018

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

#### Other Information

##### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.